



# **NAVY TRAINING SYSTEM PLAN**

**FOR THE**

## **IMPROVED EXTENDED ECHO RANGING/ COMMAND FUNCTION SELECT SYSTEM**

**N78-NTSP-A-50-0204/I**

**JANUARY 2003**

**IMPROVED EXTENDED ECHO RANGING/  
COMMAND FUNCTION SELECT SYSTEM****EXECUTIVE SUMMARY**

The Improved Extended Echo Ranging (IEER)/Command Function Select (CFS) System will utilize the active AN/SSQ-110A Sonobuoy deployed from a properly configured P-3C Avionics Improvement Program (AIP) AN/USQ-78A equipped aircraft. The AN/SSQ-110A Sonobuoy will provide a acoustical signal source, which will be received by the Air Deployable Active Receiver (ADAR) AN/SSQ-101 Digital Horizontal Planer Array Sonobuoy.

While IEER/CFS software was developed as a non-Acquisition Category (ACAT) program, the ADAR Sonobuoy was an ACAT III program in the Production and Deployment Phase of the Defense Acquisition System. Milestone C was achieved in Fiscal Year (FY) 02. A Full-Rate Production Decision Review is scheduled for FY04 with distribution scheduled to occur in FY04 and FY05. Initial Operating Capability is scheduled for achievement in FY06.

IEER/CFS will not change the qualitative and quantitative manpower requirements for aircrew or maintenance personnel. Organizational level personnel will upload and download the sonobuoys as part of their currently assigned tasking.

The IEER/CFS training program will provide an integrated training system for aircrew and ground personnel necessary to safely and effectively operate, maintain, support, deploy, and employ the IEER/CFS system. Naval Air System Command (NAVAIR) Program Manager, Air (PMA) 264 is currently developing Computer-Based Training for the IEER/CFS.

**IMPROVED EXTENDED ECHO RANGING/  
COMMAND FUNCTION SELECT SYSTEM****TABLE OF CONTENTS**

	<b>Page</b>
Executive Summary .....	i
List of Acronyms .....	iii
Preface.....	v
 <b>PART I - TECHNICAL PROGRAM DATA</b>	
A. Nomenclature-Title-Program .....	I-1
B. Security Classification.....	I-1
C. Manpower, Personnel, and Training Principals .....	I-1
D. System Description.....	I-1
E. Developmental Test and Operational Test .....	I-2
F. Aircraft and/or Equipment/System/Subsystem Replaced .....	I-2
G. Description of New Development .....	I-2
H. Concepts .....	I-3
1. Operational.....	I-3
2. Maintenance .....	I-3
3. Manning .....	I-4
4. Training.....	I-4
I. Onboard (In-Service) Training.....	I-8
J. Logistics Support.....	I-9
K. Schedules.....	I-9
L. Government-Furnished Equipment and Contractor-Furnished Equipment Training Requirements .....	I-10
M. Related NTSPs and Other Applicable Documents.....	I-10
 <b>APPENDIX A - POINTS OF CONTACT .....</b>	 A-1

**IMPROVED EXTENDED ECHO RANGING/  
COMMAND FUNCTION SELECT SYSTEM**

**LIST OF ACRONYMS**

ADAR	Air Deployable Active Receiver
AIP	Avionics Improvement Program
ASW	Anti-Submarine Warfare
AW	Aviation Warfare Systems Operator
CBT	Computer-Based Training
CFS	Command Function Select
CNO	Chief of Naval Operations
COMLANTFLT	Commander, Atlantic Fleet
COMPACFLT	Commander, Pacific Fleet
DET	Detachment
DT	Developmental Test
EOD	Explosive Ordnance Disposal
FASOTRAGRULANT	Fleet Aviation Specialized Operation Training Group, Atlantic
FASOTRAGRUPAC	Fleet Aviation Specialized Operation Training Group, Pacific
FIT	Fleet Introduction Team
FMS	Foreign Military Sales
FY	Fiscal Year
IEER	Improved Extended Echo Ranging
ILSP	Integrated Logistics Support Plan
MCBH	Marine Corps Base Hawaii
NA	Not Applicable
NAS	Naval Air Station
NAVAIR	Naval Air System Command
NOFORN	Not Releasable to Foreign Nationals
NTSP	Navy Training System Plan
OPO	OPNAV Principal Official
OT	Operational Test
PHIC	Program Hardware Integration Center
PMA	Program Manager, Air

**IMPROVED EXTENDED ECHO RANGING/  
COMMAND FUNCTION SELECT SYSTEM**

**LIST OF ACRONYMS**

PQS	Personnel Qualifications Standards
RFOU	Ready For Operational Use
RFT	Ready For Training
TD	Training Device
TSC	Tactical Support Center
TTE	Technical Training Equipment
VX-20	Air Test and Evaluation Squadron Two Zero

**IMPROVED EXTENDED ECHO RANGING/  
COMMAND FUNCTION SELECT SYSTEM**

**PREFACE**

This Initial Navy Training System Plan (NTSP) is an early look at the Improved Extended Echo Ranging (IEER)/Command Function Select (CFS) program. This is the first iteration of the Initial NTSP for the IEER/CFS program. This document explores the various employment and support alternatives currently under consideration. Since it is relatively early in the acquisition process, some definitive data was unavailable for inclusion in this version. This NTSP is a product of the Training Planning Process Methodology, as outlined in Chief of Naval Operations (OPNAV) publication P-751-3-9-97.

## PART I - TECHNICAL PROGRAM DATA

### A. NOMENCLATURE-TITLE-PROGRAM

**1. Nomenclature-Title-Acronym.** Improved Extended Echo Ranging (IEER)/Command Function Select (CFS)

**2. Program Element.** 0604261N

### B. SECURITY CLASSIFICATION

**1. System Characteristics** ..... Secret / Not Releasable to Foreign Nationals (NOFORN)

**2. Capabilities** ..... Secret / NOFORN

**3. Functions** ..... Confidential / NOFORN

### C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor ..... CNO (N78)

OPO Resource Sponsor..... CNO (N78)

Functional Mission Sponsor ..... CNO (N78)

Developing Agency ..... NAVAIR (PMA264)

Training Agency ..... COMLANTFLT (N71)  
COMPACFLT (N70)  
NETC (ETS-23)

Training Support Agency..... NAVAIR (PMA205)

Manpower and Personnel Mission Sponsor..... CNO (N12)  
NAVPERSCOM (PERS-4, PERS-404)

Director of Naval Training ..... CNO (N00T)

### D. SYSTEM DESCRIPTION

**1. Operational Uses.** The Navy seeks to maintain a superior global airborne Anti-Submarine Warfare (ASW) capability with the ability to detect, localize, identify, and track potential hostile submarines. This is provided mainly by the capabilities of sonobuoy systems.

The IEER/CFS system will utilize the active AN/SSQ-110A Sonobuoy deployed from a properly configured P-3C Avionics Improvement Program (AIP) AN/USQ-78A equipped aircraft. The AN/SSQ-110A will provide a deployable acoustical signal source, which will be received by the AN/SSQ-101 Digital Horizontal Planer Array Sonobuoy referred to as the Air Deployable Active Receiver (ADAR). The in-buoy processing is transmitted back to the attending aircraft for processing and analysis. The AN/SSQ-110A is designed for a four-hour operating life, with primary scuttle after release of the second payload. It has two selectable depths at which the source can be released. There is a secondary scuttle at four to five hours after deployment, in addition to tertiary scuttle after 12 hours of deployment.

**2. Foreign Military Sales.** Information concerning Foreign Military Sales (FMS) of sonobuoys is classified information. For information on FMS contact Naval Air System Command (NAVAIR) Program Manager, Air (PMA) 264.

**E. DEVELOPMENTAL TEST AND OPERATIONAL TEST.** Developmental Test (DT) is currently being conducted at NAVAIR Patuxent River, Maryland, and is scheduled for completion in May 2003. Operational Test (OT) is scheduled for Fiscal Year (FY) 03 at NAVAIR and Air Test and Evaluation Squadron Two Zero (VX-20), Patuxent River.

**F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED.** IEER/CFS is being introduced to the Fleet as new software functionality. No aircraft or equipment is being replaced through this new system capability.

## **G. DESCRIPTION OF NEW DEVELOPMENT**

**1. Functional Description.** The IEER source is an AN/SSQ-110A Sonobuoy, which is normally launched from a standard A-size tube via pneumatics, free fall, or a Cartridge Actuated Device (CAD). Shipboard personnel may also launch by hand. The AN/SSQ-110A Sonobuoy is powered by either salt water activated magnesium or silver chloride, lithium chemistry, or thermal batteries, and is designed to scuttle at some point after usable or selected life expires.

**2. Physical Description.** The AN/SSQ-101 and AN/SSQ-110A Sonobuoys are designed to form-fit existing standard A-size launch tubes. Physical characteristics of the IEER receiver and source are as follows:

SONOBUOY	DIMENSIONS (INCHES)		WEIGHT (POUNDS)
	LENGTH	DIAMETER	
AN/SSQ-101	36	4-7/8	35 (See Note)
AN/SSQ-110A	36	4-7/8	39 (See Note)



**Note:** The sonobuoys will be produced from various manufacturers and will vary slightly in weight, although the maximum allowable weight will be 39 lbs.

**3. New Development Introduction.** The IEER System will consist of new production sonobuoys and will be Ready For Operational Use (RFOU) upon delivery starting in FY04.

**4. Significant Interfaces.** The IEER system will use an AN/SSQ-110A Sonobuoy source and an AN/SSQ-101 ADAR Sonobuoy, and will not require structural modifications to the recipient aircraft. The IEER/CFS capabilities require software modifications to the P-3C AIP AN/USQ-78A equipped aircraft, which will be introduced concurrent with the AN/SSQ-101 Sonobuoy and Fleet release of the IEER/CFS software.

**5. New Features, Configurations, or Material.** The IEER/CFS system will utilize state-of-the-art software and processing technology to accomplish target acquisition. The AN/SSQ-110A will use an incoherent active source to accomplish this mission. The IEER/CFS permits an operator, additional capabilities to manage IEER/CFS capable sonobuoys after they are deployed. Such control includes some of the following functions: changing radio frequencies and applying power.

## **H. CONCEPTS**

**1. Operational Concept.** IEER/CFS source and receiver will be either hand-launched by shipboard personnel, or air launched from aircraft by aircrew personnel. A properly equipped P-3C AIP AN/ASQ-78A equipped aircraft will control and process sonobuoy information. Aviation Warfare Systems Operator (AW) Aircrewmembers will monitor the sonobuoys onboard the aircraft via an AN/UYS-1 Advanced Signal Processor. The IEER/CFS sonobuoys will utilize expendable and non-repairable sonobuoys; organizational level personnel will be required to preset and load the sonobuoys. These actions will utilize generic skills inherent in the Aviation Ordnanceman (AO), Aviation Electronics Technician (AT), and AW ratings.

### **2. Maintenance Concept**

**a. Organizational.** There will be no organizational, intermediate, or depot level maintenance actions required.

**(1) Preventive Maintenance.** Not Applicable (NA)

**(2) Corrective Maintenance.** NA

**b. Intermediate.** NA

**c. Depot.** NA

**d. Interim Maintenance.** NA

**e. Life Cycle Maintenance Plan.** The initial shelf life of all procured sonobuoys is five years. After five years, the shelf life may be extended after inspection, in accordance with applicable shelf life program criteria.

**3. Manning Concept.** Introduction of the IEER/CFS capability will not change the qualitative and quantitative manpower requirements for aircrew or maintenance personnel. Existing aircrew operators will be utilized to monitor the processed data. Organizational level maintenance personnel will upload and download the sonobuoys as part of their currently assigned tasking. No new Navy Enlisted Classification (NEC) codes will be required.

**a. Estimated Maintenance Man-Hours per Flight Hour.** IEER/CFS software affords no changes to the estimated Maintenance Man-Hour per Flight Hour (MMH/FH) or host platform utilization rate.

**b. Proposed Utilization.** The utilization rate is classified information. For information on utilization rates, contact NAVAIR, PMA264.

**c. Recommended Qualitative and Quantitative Manpower Requirements**

**(1) Aircrew.** Existing aircrew manpower requirements are adequate to operate the IEER/CFS.

**(2) Maintenance.** The IEER/CFS software does not require any organizational, intermediate, or depot level maintenance. Existing organizational level maintainers will upload and download the sonobuoys.

**(3) Other.** NA

**4. Training Concept.** The objective for the IEER/CFS training program is to provide an integrated training system for aircrew and ground personnel necessary to safely and effectively operate, maintain, support, deploy, and employ the IEER/CFS system. All aspects of the training system will incorporate qualitative and quantitative checks and measures by which overall efficiency of the training system and quality of the operators can be monitored and evaluated as necessary. NAVAIR PMA 264 is currently developing Computer-Based Training (CBT) for IEER/CFS.

**a. Initial Training.** Training for DT personnel was conducted in FY02. Training for VX-20 personnel supporting OT is scheduled for March 2003 at NAVAIR Patuxent River. NAVAIR will conduct the following initial training for Fleet introduction of IEER/CFS system. This training will consist of both classroom and hands-on instruction. The personnel attending these courses will be key personnel that can take this training back to units and provide IEER/CFS training.

**Title .....** **Fleet Introduction Team (FIT) Initial Training**

**Description .....** To ensure FIT members acquire sufficient knowledge on the IEER/CFS system for fleet introduction training of designated squadron aircrews.

**Locations .....** ° NAVAIR Patuxent River  
° All Patrol Squadrons Marine Corps Base Hawaii (MCBH) Kaneohe  
° All Patrol Squadrons Naval Air Station (NAS) Jacksonville

**Length .....** 6 days

**RFT date .....** FY04

**TTE/TD .....** CBT

**Prerequisites .....** ° AW 7841  
° P-3C Update III Tactical Coordinator  
° Fleet Aviation Specialized Operational Training Group, Pacific (FASOTRAGRUPAC) Instructor  
° Fleet Aviation Specialized Operational Training Group, Atlantic (FASOTRAGRULANT) Instructor

**Title .....** **Tactical Support Center (TSC) Initial Training**

**Description .....** To ensure TSC personnel acquire sufficient knowledge and skill in order to meet IEER/CFS mission planning and IEER/CFS post-flight reconstruction analysis.

**Locations .....** ° NAVAIR Patuxent River  
° TSC NAS Jacksonville  
° TSC MCBH Kaneohe

**Length .....** 6 days

**RFT date .....** FY04

**TTE/TD .....** CBT

**Prerequisites .....** AW

**Title .....** **IEER/CFS Support System Initial Training**

**Description .....** To ensure that FIT/Subject Matter Expert (SME) personnel acquire sufficient knowledge on the output of the IEER/CFS Mission Reconstruction System.

Locations ..... ° NAVAIR Patuxent River  
 ° TSC NAS Jacksonville  
 ° TSC MCBH Kaneohe  
 ° All Patrol Squadrons MCBH Kaneohe  
 ° All Patrol Squadrons NAS Whidbey Island  
 ° All Patrol Squadrons NAS Jacksonville  
 ° All Patrol Squadrons NAS Brunswick

Length ..... 4 days

RFT date ..... FY04

TTE/TD ..... CBT

Prerequisites ..... ° AW  
 ° FASOTRAGRUPAC Instructor  
 ° FASOTRAGRULANT Instructor

**Title ..... IEER/CFS Program Hardware Integration Center (PHIC) Operator Initial Training**

Description ..... To ensure that PHIC Operators acquire sufficient knowledge and skills to operate the PHIC Part Task Trainer (PTT) to support IEER/CFS aircrew training.

Location ..... NAVAIR Patuxent River

Length ..... 3 days

RFT date ..... FY04

TTE/TD ..... CBT

Prerequisites ..... AW

**b. Follow-on Training.** Follow-on training for IEER/CFS Operators will be integrated into the existing training course listed below. It is estimated that the addition of IEER/CFS training data into this course will not increase the course length.

**Title .....** **Extended Echo Ranging**

**CIN .....** D/E-050-3769

**Model Manager....** FASOTRAGRUPAC

**Description.....** This course provides training to Sensor Operators, including:

- ° Multistatic Signal Analysis
- ° Basic Multistatic Theory
- ° Multistatic Recognition and Interpretation
- ° Search Store Specifications and Characteristics
- ° Search Store Safety Concerns and Environments

Upon completion the student will be able to perform as an Acoustic Operator in an operational environment under minimum supervision.

**Locations .....**

- ° FASOTRAGRUPAC North Island
- ° FASOTRAGRUPAC Detachment (DET) Whidbey Island
- ° FASOTRAGRUPAC DET Hawaii
- ° FASOTRAGRUPAC DET Atsugi
- ° FASOTRAGRULANT DET Brunswick
- ° FASOTRAGRULANT DET Jacksonville
- ° FASOTRAGRULANT Norfolk

**Length.....** 2 days

**RFT date .....** Currently available (FY04 with IEER/CFS)

**Skill identifier .....** AW 7841 (E-1 through E-8)

**TTE/TD.....** NA

**Prerequisite .....** D-050-1230, P-3C Update AIP Acoustic Operator

**c. Student Profiles**

<b>SKILL IDENTIFIER</b>	<b>PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS</b>
AW 7841	<ul style="list-style-type: none"> <li>° C-210-2010, Aviation Warfare Systems Operator Class A1</li> <li>° Q-050-1500, Aircrewman Candidate School</li> <li>° D-050-1230, P-3C Update AIP Acoustic Operator</li> <li>° D-2D-0039, Survival, Evasion, Resistance, and Escape</li> </ul>

**d. Training Pipelines.** No new training pipelines or tracks have been identified, but the following course has been identified as requiring revisions to include IEER/CFS with no change to course length anticipated:

CIN	COURSE TITLE
D/E-050-3769	◦ Extended Echo Ranging (EER)

## **I. ONBOARD (IN-SERVICE) TRAINING**

### **1. Proficiency or Other Training Organic to the New Development**

**a. Maintenance Training Improvement Program.** NA

**b. Aviation Maintenance Training Continuum System.** NA.

**2. Personnel Qualification Standards.** Personnel Qualification Standards (PQS) will be updated to reflect the introduction of the IEER/CFS through PQS user inputs, and PQS review conferences facilitated by Personnel Qualification Standards Development Group, Naval Education and Training Professional Development and Technology Center, Pensacola, Florida. A firm date has not been established for the IEER/CFS System PQS review. The following PQSs will require updating with IEER/CFS Sonobuoy information.

PQS TITLE	PQS NUMBER	MODEL MANAGER
Explosive Ordnance Disposal (EOD) Fundamentals	43171-C	EOD Training Unit Two
P-3C ASQ-78A AIP Aircraft Acoustic Sensor	43433-16B	Patrol Squadron Three Zero
P-3C Aircraft Tactical Coordinator	43433-21B	Patrol Squadron Three Zero

**3. Other Onboard or In-Service Training Packages.** The Explosive Handling Personnel Qualifications and Certification Program, as detailed in Office of the Chief of Naval Operations Instruction (OPNAVINST) 8023.2C, will be used to ensure that initial explosive handling qualification, training, and subsequent explosive certification have been accomplished.

## J. LOGISTICS SUPPORT

### 1. Manufacturer and Contract Numbers

CONTRACT NUMBER	MANUFACTURER	ADDRESS
NAC163-88-C-007	Spartan Electronics	Spartan Electronics County Line Industrial Park Southampton, PA 18966-3877
NAC163-88-C-008	Magnavox Electronics System	Magnavox Electronics System 1300 East Joppa Road Baltimore, MD 21204

**2. Program Documentation.** The Integrated Logistic Support Plan (ILSP) for the IEER/CFS System was approved 31 Oct 1995.

**3. Technical Data Plan.** The P-3C AIP AN/USQ-78A technical manuals are being revised by NAVAIR and are scheduled for completion in February 2004.

**4. Test Sets, Tools, and Test Equipment.** The requirement for support equipment is expected to be minimized by the utilization of existing tools and handling equipment. Down link test sets were provided by PMA264 to all Patrol Squadron Wings.

**5. Repair Parts.** Unit are supported by the Bear Trap Program under direction of PMA264.

**6. Human Systems Integration.** NA

## K. SCHEDULES

**1. Installation and Delivery Schedules.** Sonobuoys are installed when and as required to support the operating activities' missions. The delivery schedules for all subject sonobuoys are classified. For information on delivery schedules, contact NAVAIR PMA264.

**2. Ready For Operational Use Schedule.** IEER/CFS will be considered RFOU when delivered.

**3. Time Required to Install at Operational Sites.** Sonobuoys are loaded into aircraft at the rate of approximately 30 sonobuoys per hour.

**4. Foreign Military Sales and Other Source Delivery Schedule.** Information concerning FMS of sonobuoys is classified. For information on FMS contact NAVAIR PMA264.

**5. Training Device and Technical Training Equipment Delivery Schedule. NA**

**L. GOVERNMENT-FURNISHED EQUIPMENT AND CONTRACTOR-FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA**

**M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS**

<b>DOCUMENT TITLE</b>	<b>DOCUMENT NUMBER</b>	<b>PDA CODE</b>	<b>STATUS</b>
P-3C Series Aircraft NTSP	A-50-8112C/A	PMA290	Proposed Oct 02
Navy Consolidated Sonobuoys	A-50-8910C/P	PMA264	Approved Aug 00
Sonobuoy Interactive Electronic Technical Manual	AE-325CD-SSQ-000	PMA264	Approved Apr 02
ILSP for the Deployable Active Receiver Sonobuoy	S-B-ILSP-427	NSWC Crane	Approved May 95
ILSP for IEER/CFS		NSWC Crane	Approved 31 Oct 95
Sonobuoy Maintenance Plan	MP-AYMP-1119	NSWC Crane	Approved Oct 93





## APPENDIX A - POINTS OF CONTACT

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## APPENDIX A - POINTS OF CONTACT

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